

ABSTRACT

A mobile emergency response apparatus providing water collection, handling, treatment, and storage capabilities, as well as serving as mobile telecommunication system. The apparatus 5 comprises a raw water filtration system, a sodium ion exchange system, a storage system with a plurality of tanks, a reverse osmosis system, and heating and distributions systems. The apparatus also comprises a mobile electrical power system. Optionally, the apparatus includes a desalination system, a disinfection system, a rainwater collection system, a fluid containment and recovery system, and an auxiliary fluid distribution system. The disinfection system may include 10 a chlorination, ultraviolet light, or ozone disinfection system, and may further include a distillation system that may be conventionally powered or solar powered. Water may be distributed through a plurality of auxiliary devices. The telecommunication system includes both satellite and terrestrial transmission and receiving capability, and location identification devices such as a global positioning system and a radiolocation system.